Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sir Isaac Newton and the Three Laws of Motion

Directions: As you visit each of the websites, look for the information in this chart. You will receive points for completing each of the answers on the table. If you need more information, you may always use pages 308-309 in your textbook as an additional reference.

|  |  |  |
| --- | --- | --- |
| Question | Answer | Source (Website) |
| 1. When and where was Sir Isaac Newton born? |  |  |
| 2. What was so special about Sir Isaac Newton at the time of his birth? |  |  |
| 3. What three areas of science interested Sir Isaac Newton ? |  |  |
| 4. List Sir Isaac Newton’s contribution to astronomy. |  |  |
| 5. List Sir Isaac Newton’s contribution to mathematics. |  |  |
| 6. List Sir Isaac Newton’s contribution to physics. |  |  |
| 7. What is Newton’s First Law of Motion? |  |  |
| 8. What is Newton’s Second Law of Motion? |  |  |
| 9. What is the unit that is used to measure force? |  |  |
| 10. What is the equation that explains Newton’s Second Law of Motion? |  |  |
| 11. Do we weigh the same on Mars that we do on Earth? Why or Why not? |  |  |
| 12. Is your mass the same on the earth and the moon? |  |  |
| 13. What law explains how an object can orbit the earth without falling to earth’s surface? |  |  |
| 14. What is Newton’s Third Law of Motion? |  |  |
| 15. What law of motion explains how a rocket launches into outer space? |  |  |
| 16. What are action and reaction forces? |  |  |
| 17. Do action and reaction forces cancel each other out? Explain. |  |  |
| 18. List two examples of Newton’s First Law of Motion. |  |  |
| 19. List two examples of Newton’s Second Law of Motion. |  |  |
| 20. List two examples of Newton’s Third Law of Motion. |  |  |